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October 24, 2005

David R. Saliwanchik

David R. Saliwanchik, Patent Attorney

INFORMATION DISCLOSURE  
STATEMENT

Patent Application  
Docket No. SPO-120  
Serial No. 10/522,047

#16

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Tadao Saito, Haruki Kitazawa  
Serial No. : 10/522,047  
Art Unit : *Not yet assigned*  
Conf. No. : *Not yet assigned*  
Filed : January 19, 2005  
For : Phosphorylated Dextrans

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§1.97 AND 1.98

Sir:

The above-identified patent application was filed in the U.S. Patent Office as a national application under 35 USC §371. A copy of the International Search Report and copies of the references cited therein have been made available in the national stage file; however, for the Examiner's convenience, the applicants are attaching herewith copies of the references listed on Form PTO/SB/08, a copy of the International Search Report, as well as an English translation of the International Preliminary Report on Patentability.

Attached is a PTO/SB/08 form which lists the references attached.

In accordance with 37 CFR §1.56, the applicants hereby request that the references listed on the attached form PTO/SB/08 be made of record and considered in the examination of the subject application.

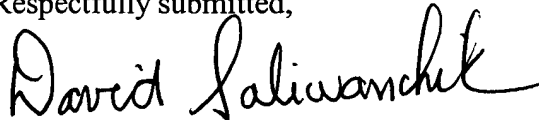
Please note that Suzuki, S. *et al.*, JP 51-41083, dated April 6, 1976 is not available in English. However, the International Preliminary Report on Patentability contains a concise explanation of the relevance of this citation to the subject application.

Also note that references JP 3017493 (patent publication) and JP2000/247895 (publication of patent application) were issued for the same patent application. An English translation of the abstract, claims and detailed description is enclosed for the Examiner's convenience.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks. If any additional fee is required, or to credit any overpayment, please use Deposit Account No. 19-0065.

The applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



David R. Saliwanchik  
Patent Attorney  
Registration No. 31,794  
Phone No.: 352-375-8100  
Fax No.: 352-372-5800  
Address : P.O. Box 142950  
Gainesville, Florida 32614-2950

DRS/hey

Attachments: Form PTO/SB/08

Copies of References cited on Form PTO/SB/08;  
Copy of International Search Report and English  
Translation of International Preliminary Report on Patentability;  
English translation of refs. F2 & F3.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/522,047
				Filing Date	January 19, 2005
				First Named Inventor	Tadao Saito
				Art Unit	not yet assigned
Examiner Name	not yet assigned				
Sheet	1	of	2	Attorney Docket Number	SPO-120

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	U1	US-			
	U2	US-			
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	F1	JP 5141083	4-6-1976	S. Suzuki	ALL	
	F2	JP 3017493	12-24-1999	H. Ito	ALL	
	F3	JP 2000/247895	9-12-2000	Meiji Milk Prod. Co. LTD.	ALL	X
	F4					
	F5					
	F6					
	F7					

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/522,047
Filing Date	January 19, 2005
First Named Inventor	Tadao Saito
Group Art Unit	
Examiner Name	
Attorney Docket Number	SPO-120

Sheet	2	of	2
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	R1	BABA, M. <i>et al.</i> "Mechanism of Inhibitory Effect of Dextran Sulfate and Heparin on Replication of Human Immunodeficiency Virus <i>In Vitro</i> " <i>Proc. Natl. Acad. Sci. U.S.A.</i> , August 1988, pp. 6132-6136, Vol. 85, No. 16.	
	R2	KITAZAWA, H. <i>et al.</i> "Augmentation of Macrophage Functions by an Extracellular Phosphopolysaccharide from <i>Lactobacillus Delbrueckii</i> ssp. <i>Bulgaricus</i> " <i>Food Microbiology</i> , 2000, pp. 109-118, Vol. 17, No. 1.	
	R3	KITAZAWA, H. <i>et al.</i> "Phosphate Group Requirement for Mitogenic Activation of Lymphocytes by an Extracellular Phosphopolysaccharide from <i>Lactobacillus Delbrueckii</i> ssp. <i>Bulgaricus</i> " <i>International Journal of Food Microbiology</i> , 1998, pp. 169-175, Vol. 40, No. 3.	
	R4	SUZUKI, M. <i>et al.</i> "Preparation and Antitumor Activity of O-Palmitoyldextran Phosphates, O-Palmitoyldextrans, and Dextran Phosphate" <i>Carbohydrate Research</i> , 1977, pp. 223-229, Vol. 53, No. 2.	
	R5	TARELLI, E. <i>et al.</i> "Drying from Phosphate-Buffered Solutions Can Result in the Phosphorylation of Primary and Secondary Alcohol Groups of Saccharides, Hydroxylated Amino Acids, Proteins, and Glycoproteins" <i>Analytical Biochemistry</i> , 1994, pp. 196-201, Vol. 222, No. 1.	
	R6	UEMURA, J. <i>et al.</i> "Chemical Characterization of Exocellular Polysaccharide from <i>Lactobacillus Delbrueckii</i> subsp. <i>Bulgaricus</i> OLL1073R-1" <i>Milchwissenschaft</i> , 1998, pp.443-446, Vol. 53, No. 8.	
	R7	NISHIMURA-UEMURA, J. <i>et al.</i> "Functional Alteration of Murine Macrophages Stimulated with Extracellular Polysaccharides from <i>Lactobacillus Delbrueckii</i> ssp. <i>Bulgaricus</i> OLL1073R-1" <i>Food Microbiology</i> , 2003, pp. 267-273, Vol. 20.	
	R8	WHISTLER, R. L. <i>et al.</i> "Preparation and Characterization of Polysaccharide Phosphates" <i>Archives of Biochemistry and Biophysics</i> , 1969, pp. 396-401, Vol. 135, No. 1.	
	R9		
	R10		
	R11		
	R12		
	R13		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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